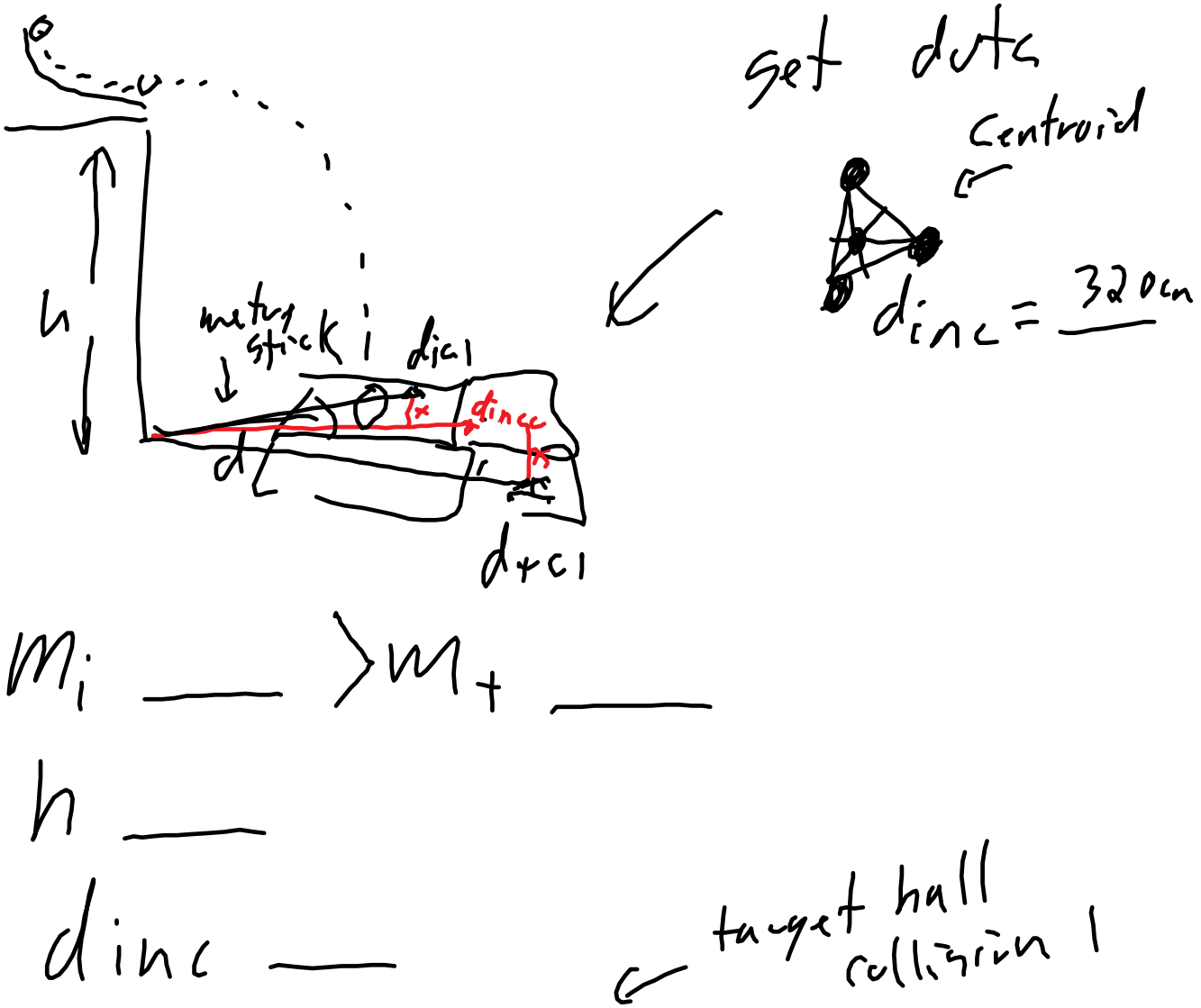
Collision Lab p19

http://physics-pages.wikispaces.com/file/view/physics%2012%20Lab%20Manual.pdf/561149823/physics%2012%20Lab%20Manual.pdf

Drop the ball 3 times with no collision to find the velocity and momentum of the incident ball. Drop from the same height and same way.
Collide 2 balls 3 times dropping the incident ball the same way and having the target ball at the same place.



d_{tc1} —— d_{xtc1} ——

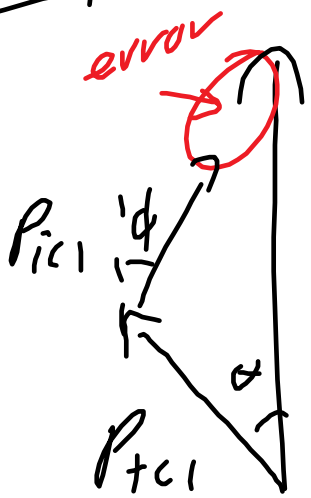
d_{ic1} —— d_{xic1} ——

d_{tc2} —— d_{xtc2} —— ← $d_{(ric)}$ / 2

d_{ic2} —— d_{xic2} ——

Data analysis p21, 22

2 diagrams Scale 1cm = 1g cm/s $h = \frac{1}{2} g t^2$



$p_{inc} = \frac{m_1 \cdot d_{inc}}{\sqrt{\frac{2h}{g}} = t}$

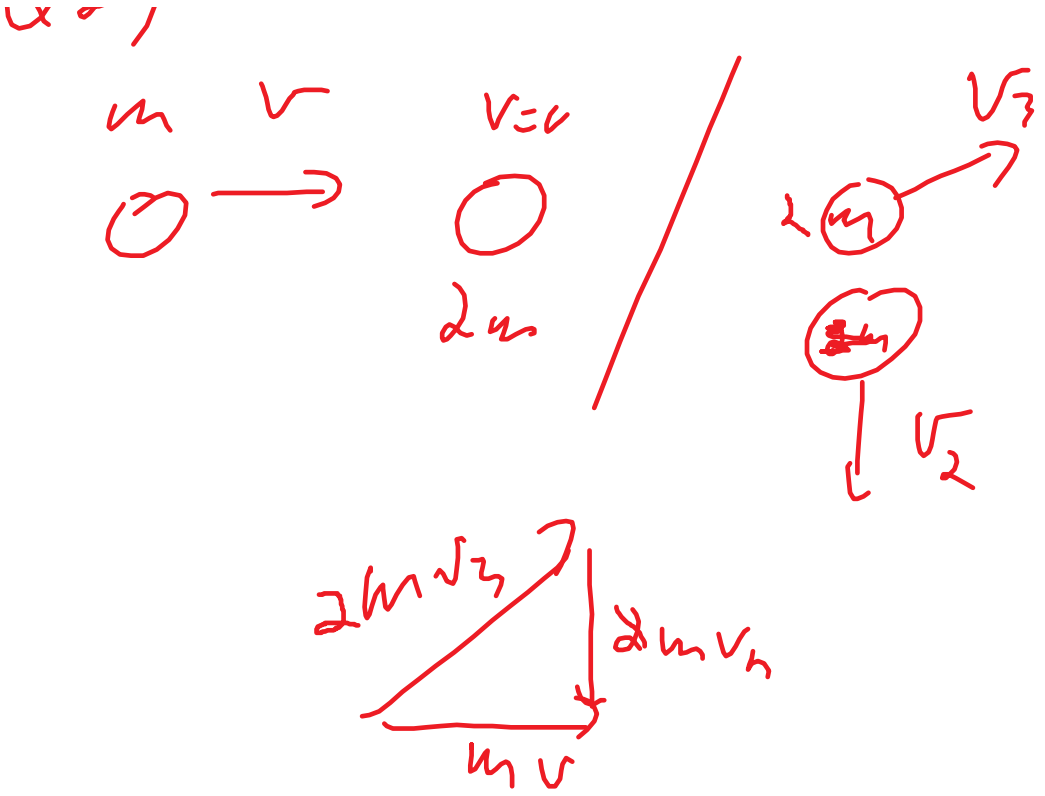
$\frac{dx}{d} = \sin\theta$

p26-27

Practice Problems

1, 5, 9, 11

Q27


m
v
v=0
2m
v3
m
2m
v2

2mv3
2mv2
mv